

**SERVO INFORMATION WRITE METHOD, SERVO CONTROL METHOD,  
DATA STORAGE DEVICE, AND PROGRAM**

**ABSTRACT**

A servo system wherein a read head R detects a servo pattern that is written on a magnetic disk by a write head W. Position control of the write head W is exercised in accordance with the detected servo pattern, and the read head R detects a propagation pattern that is written on the magnetic disk by the write head W. Position of the write head W is corrected in accordance with the detected propagation pattern.